

1983 Subject Index

This index describes the material that appeared in Volume 79, Numbers 1 through 12, of Chemical Engineering Progress, which is published by the American Institute of Chemical Engineers.

A

ACR process for ethylene.....	Jan. 68
AAES supports nuclear/federal program.....	Mar. 100
AAES takes on pre-college guidance program.....	May 78
AIChE	
Annual Officers' Meeting, photos.....	Aug. 78
Awards	
Membership.....	Feb. 94
National, Division, and Intersociety.....	Oct. 69
National Medal of Science to Katz.....	July 75
Outstanding Student Chapter.....	May 78
Perkin Medalist and Eckman Award	
winner named.....	Jan. 112
Southeast Texas Section takes PR award.....	July 70
Student prize established by CAST.....	Mar. 100
Candidates for 1984 officers.....	July 26
Chemical Plant Equipment Exposition returning to California.....	Nov. 65
Delaware Valley "History" written.....	Aug. 76
Division Institutes.....	June 9
Diamond Jubilee medallions available.....	Jan. 109
Division Officers.....	Mar. 98
Dues increase voted.....	Sept. 9
Fellows	
Jan. 114, Feb. 92, Mar. 102, Apr. 101, May 82, June 104, July 74, Aug. 81, Sept. 76, Oct. 78, Dec. 71.....	May 78
Fuels and Petrochemicals Div. officers.....	May 78
Government Programs Steering Committee.....	Oct. 22
Long Range Planning Committee Report.....	Dec. 17
Meetings	
Denver Summer National, photos.....	Nov. 21
Denver Summer National, preview.....	June 91, July 68
Diamond Jubilee, Washington, D.C. preview.....	Sept. 64
Engineering and Construction Contracting Conference, photos.....	Nov. 21
Engineering and Construction Contracting Conference, preview.....	July 68
Houston National, preview.....	Jan. 98, Feb. 87
Houston Spring National and Petro Expo, photos.....	June 27
International Solvent Extraction Conference, photos.....	Nov. 21
Los Angeles Annual photos.....	Jan. 27
Officers and Directors, 1983.....	Jan. 108
Officers, Environmental Div.....	June 101
Student Award winners.....	July 100
AMV ammonia process.....	May 62
ASME codes for exchanger design.....	July 47
Absorbers in amine-sweetening units.....	Mar. 63
Absorption, Thesis Index.....	Jan. 90
Academic salaries, 1982-83.....	July 21
Acetylene converter, computer control of.....	Nov. 27
Adaptive controllers.....	June 69
Adipic acid manufacture.....	Dec. 11
Adsorption, Thesis Index.....	Jan. 90
Advertising, effectiveness of.....	June 17
Aerosols, Thesis Index.....	Jan. 90
Age discrimination.....	Oct. 17
Agglomeration of fine coal.....	May 45
Air Pollution Control, Thesis Index.....	Jan. 90
Alcohol production, energy conservation in.....	Jan. 35
Algorithms, optimization.....	June 65
Alkaline pulping of wood.....	Sept. 27
Alkylene oxides, controlling exposure to.....	Mar. 39
AMINE	
monitoring refinery sewers for.....	Mar. 56
sweetening units, cost reduction in.....	Mar. 63
Amino acid drying.....	Apr. 43
AMMONIA	
AMV process.....	May 62
converter, horizontal.....	May 52
plant shutdowns, causes.....	Mar. 11, May 28
raw materials for.....	July 11
Applied Math, Thesis Index.....	Jan. 90
Attainment analysis, computerized.....	June 61
Aviation fuel from LPG.....	Feb. 55

AWARDS

AIChE Membership.....	Feb. 94
Perkin Medalist and Eckman Award	
winner named.....	Jan. 114
Azeotropic drying.....	Apr. 60

B

Barricade design criteria.....	Sept. 50
Batch processes, computer control of.....	Oct. 47
Biochemical Engineering, Thesis Index.....	Jan. 90
Bioengineering, Thesis Index.....	Jan. 90
Biomass feedstocks, chemicals from.....	Nov. 59
Biomaterials, Thesis Index.....	Jan. 91
Biomedical Engineering, Thesis Index.....	Jan. 91
Blast wave overpressures, effects of.....	Sept. 50
Blood Separation, Thesis Index.....	Jan. 91
Boiler, sulfite recovery, computer control of.....	Sept. 31
Borosilicate glass, properties of.....	Feb. 82
Brochures of engineering/contractors, guidelines for.....	Dec. 15
Budget, federal, chemical engineering in.....	May 24
Business, technology transfer.....	Feb. 15

C

CAST establishes student award.....	Mar. 100
CEP	
Advertisers' Index.....	Jan. 117, Feb. 194, Mar. 137, April 131, May 113, June 137, July 112, Aug. 113, Sept. 113, Oct. 112, Nov. 129, Dec. 104
Books.....	Jan. 4, Feb. 4, Mar. 9, Apr. 6, June 6, Aug. 8, Sept. 6, Nov. 6, Dec. 4
Data Service.....	Jan. 172, Mar. 110, Apr. 107, May 89, June 112, July 92, Sept. 86, Oct. 90, Nov. 99, Dec. 78
Employment.....	Jan. 163, Feb. 187, Mar. 130, Apr. 124, May 106, June 131, July 105, Aug. 108, Sept. 104, Oct. 105, Nov. 120, Dec. 97
Employment Services.....	Jan. 168, Feb. 192, Mar. 134, Apr. 129, May 112, June 135, July 110, Aug. 108, Sept. 110, Oct. 109, Nov. 125, Dec. 100
Future Meetings.....	Jan. 153, Feb. 177, Mar. 120, Apr. 112, May 94, June 120, July 76, Aug. 82, Sept. 92, Oct. 80, Nov. 11, Dec. 88
Institute News.....	Jan. 107, Feb. 93, Mar. 97, Apr. 99, May 78, June 100, July 70, Aug. 76, Sept. 77, Dec. 67
Letters.....	Jan. 4, Mar. 8, Apr. 8, May 4, June 6, July 8, Sept. 6, Nov. 8, Dec. 6
News and Notes.....	Jan. 172, Feb. 196, Mar. 138, Apr. 132, May 114, June 138, July 114, Aug. 114, Sept. 114, Oct. 113, Nov. 130, Dec. 106
People.....	Jan. 112, Feb. 90, Mar. 101, Apr. 100, May 81, June 103, July 72, Aug. 80, Sept. 74, Oct. 76, Nov. 66, Dec. 70
Washington Newsletter.....	Jan. 33, Feb. 28, Mar. 33, Apr. 30, May 26, June 32, July 30, Aug. 26, Sept. 20, Oct. 22, Nov. 25, Dec. 21
What's New.....	Mar. 103, Apr. 102, May 84, June 106, July 85, Aug. 88, Sept. 78, Dec. 72
Canadian petrochemical complexes.....	Apr. 11
Candidates for AIChE offices.....	July 25
Careers, minority engineers sought for flyer.....	Jan. 109
Cat-cracking pilot unit.....	Feb. 51
Catalysis research systems.....	Nov. 52
Catalysis, Thesis Index.....	Jan. 91
CATALYST	
development.....	Apr. 93
low-pressure methanol.....	May 7
screening, mass balancing in.....	Aug. 41
Thesis Index.....	Jan. 91
Catalytic Research, Thesis Index.....	Jan. 91
Caustic liquors, wet air oxidation of.....	Mar. 68
Chem Show highlights.....	Nov. 69

CHEMICAL

engineering, software.....	June 30
engineers, construction industry opportunities.....	Jan. 22
Microscopy, Thesis Index.....	Jan. 91
Plant Equipment Exposition returning to Calif.....	Nov. 65
Processes, Thesis Index.....	Jan. 91
Reaction Engineering, Thesis Index.....	Jan. 91
Chemicals from biomass feedstocks.....	Nov. 59
Chemistry of energy in the '80s.....	Feb. 24
CHROMATOGRAPHY	
gas and liquid.....	Mar. 56
liquid, large-scale system.....	Oct. 53
Thesis Index.....	Jan. 91
Civil Rights Act of 1964.....	Aug. 13
Clean Water Act.....	Feb. 28
Coal-feed systems.....	May 31
Coal, Thesis Index.....	Jan. 91
Cogeneration.....	Jan. 9
Coil, radiant.....	Dec. 50
Coke Fluidized Bed Cracking process.....	Jan. 76
Colloid Science, Thesis Index.....	Jan. 92
Combustion, Thesis Index.....	Jan. 92
Complaints about sexual harassment, handling.....	Aug. 13
Compressors, reciprocating gas, materials for.....	Apr. 77
COMPUTER	
aids for process engineering.....	June 43
control of batch process.....	Oct. 47
control of batch receptors.....	Jan. 56
control of ethylene plant.....	Nov. 27
control of liquid-chromatography system.....	Oct. 53
control of olefins fractionation.....	Oct. 44
controlled pilot plants.....	Aug. 46
distributed system for pilot plants.....	Aug. 55
input technique.....	Oct. 27
Computer-Aided Design, Thesis Index.....	Jan. 92
Computer Program, Hextran.....	July 33
Computerized attainment analysis.....	June 61
Computers, personal, software for.....	June 30
Concentrators, falling film, PFR, and crystallizer.....	Sept. 27
Condensate recovery in refineries.....	May 67
Condensers, air-cooled.....	Aug. 66
Construction industry, employment in.....	Jan. 22
Contractor, horizontal alkylation.....	Aug. 59
Continuous vacuum plate dryer.....	Apr. 71
Contractor, marketing effectiveness of.....	Dec. 15
CONTROL	
computer, of batch processes.....	Oct. 47
computer, of olefins fractionation.....	Oct. 44
computer, of sulfite recovery boiler.....	Sept. 31
data acquisition system for pilot plants.....	Aug. 46
of fugitive emissions, economics of.....	Nov. 43
of multi-product batch reactors.....	Jan. 56
practices at formaldehyde plants.....	Mar. 35
reactor, model prediction for.....	July 77
systems, distributed digital.....	Feb. 67
CONTROLLERS	
adaptive.....	June 69
digital, single-loop.....	Feb. 67
Controls, Thesis Index.....	Jan. 92
Converter, ammonia.....	May 52
COOLING TOWERS	
conversion strategies for.....	Dec. 33
mismatches about.....	Dec. 23
Cooling water systems management.....	May 67
Coproduc utilization.....	Dec. 11
Corporate discipline.....	Sept. 15
Corporate planning assessed.....	Jan. 108
CORROSION	
control via computer.....	Sept. 31
in PWR steam generators.....	July 39
resistance of thermoplastics.....	Jan. 62
Cost optimization using a dynamic process model.....	Jan. 43
COSTS	
amine sweetening units.....	Mar. 63
ethylene production.....	Jan. 68
HF vs. sulfuric acid alkylation.....	Aug. 59
modular plants.....	Oct. 58, 63
solar receiver steam systems.....	Jan. 48
Cracker, NGL, feedstock-flexible.....	Nov. 34
Cracker, thermal regenerative.....	Mar. 82
Crude tower, simulation of.....	Jan. 54
Crude units, exchanger networks for.....	July 33

1983 Subject Index

This index describes the material that appeared in Volume 79, Numbers 1 through 12, of Chemical Engineering Progress, which is published by the American Institute of Chemical Engineers.

A

ACR process for ethylene.....	Jan. 68
AAES supports nuclear/federal program.....	Mar. 100
AAES takes on pre-college guidance program.....	May 78
AIChE	
Annual Officers' Meeting, photos.....	Aug. 78
Awards	
Membership.....	Feb. 94
National, Division, and Intersociety.....	Oct. 69
National Medal of Science to Katz.....	July 75
Outstanding Student Chapter.....	May 78
Perkin Medalist and Eckman Award	
winner named.....	Jan. 112
Southeast Texas Section takes PR award.....	July 70
Student prize established by CAST.....	Mar. 100
Candidates for 1984 officers.....	July 26
Chemical Plant Equipment Exposition returning to California.....	Nov. 65
Delaware Valley "History" written.....	Aug. 76
Division Institutes.....	June 9
Diamond Jubilee medallions available.....	Jan. 109
Division Officers.....	Mar. 98
Dues increase voted.....	Sept. 9
Fellows	
Jan. 114, Feb. 92, Mar. 102, Apr. 101, May 82, June 104, July 74, Aug. 81, Sept. 76, Oct. 78, Dec. 71.....	May 78
Fuels and Petrochemicals Div. officers.....	May 78
Government Programs Steering Committee.....	Oct. 22
Long Range Planning Committee Report.....	Dec. 17
Meetings	
Denver Summer National, photos.....	Nov. 21
Denver Summer National, preview.....	June 91, July 68
Diamond Jubilee, Washington, D.C. preview.....	Sept. 64
Engineering and Construction Contracting Conference, photos.....	Nov. 21
Engineering and Construction Contracting Conference, preview.....	July 68
Houston National, preview.....	Jan. 98, Feb. 87
Houston Spring National and Petro Expo, photos.....	June 27
International Solvent Extraction Conference, photos.....	Nov. 21
Los Angeles Annual photos.....	Jan. 27
Officers and Directors, 1983.....	Jan. 108
Officers, Environmental Div.....	June 101
Student Award winners.....	July 100
AMV ammonia process.....	May 62
ASME codes for exchanger design.....	July 47
Absorbers in amine-sweetening units.....	Mar. 63
Absorption, Thesis Index.....	Jan. 90
Academic salaries, 1982-83.....	July 21
Acetylene converter, computer control of.....	Nov. 27
Adaptive controllers.....	June 69
Adipic acid manufacture.....	Dec. 11
Adsorption, Thesis Index.....	Jan. 90
Advertising, effectiveness of.....	June 17
Aerosols, Thesis Index.....	Jan. 90
Age discrimination.....	Oct. 17
Agglomeration of fine coal.....	May 45
Air Pollution Control, Thesis Index.....	Jan. 90
Alcohol production, energy conservation in.....	Jan. 35
Algorithms, optimization.....	June 65
Alkaline pulping of wood.....	Sept. 27
Alkylene oxides, controlling exposure to.....	Mar. 39
AMINE	
monitoring refinery sewers for.....	Mar. 56
sweetening units, cost reduction in.....	Mar. 63
Amino acid drying.....	Apr. 43
AMMONIA	
AMV process.....	May 62
converter, horizontal.....	May 52
plant shutdowns, causes.....	Mar. 11, May 28
raw materials for.....	July 11
Applied Math, Thesis Index.....	Jan. 90
Attainment analysis, computerized.....	June 61
Aviation fuel from LPG.....	Feb. 55

AWARDS

AIChE Membership.....	Feb. 94
Perkin Medalist and Eckman Award	
winner named.....	Jan. 114
Azeotropic drying.....	Apr. 60

B

Barricade design criteria.....	Sept. 50
Batch processes, computer control of.....	Oct. 47
Biochemical Engineering, Thesis Index.....	Jan. 90
Bioengineering, Thesis Index.....	Jan. 90
Biomass feedstocks, chemicals from.....	Nov. 59
Biomaterials, Thesis Index.....	Jan. 91
Biomedical Engineering, Thesis Index.....	Jan. 91
Blast wave overpressures, effects of.....	Sept. 50
Blood Separation, Thesis Index.....	Jan. 91
Boiler, sulfite recovery, computer control of.....	Sept. 31
Borosilicate glass, properties of.....	Feb. 82
Brochures of engineering/contractors, guidelines for.....	Dec. 15
Budget, federal, chemical engineering in.....	May 24
Business, technology transfer.....	Feb. 15

C

CAST establishes student award.....	Mar. 100
CEP	
Advertisers' Index.....	Jan. 117, Feb. 194, Mar. 137, April 131, May 113, June 137, July 112, Aug. 113, Sept. 113, Oct. 112, Nov. 129, Dec. 104
Books.....	Jan. 4, Feb. 4, Mar. 9, Apr. 6, June 6, Aug. 8, Sept. 6, Nov. 6, Dec. 4
Data Service.....	Jan. 172, Mar. 110, Apr. 107, May 89, June 112, July 92, Sept. 86, Oct. 90, Nov. 99, Dec. 78
Employment.....	Jan. 163, Feb. 187, Mar. 130, Apr. 124, May 106, June 131, July 105, Aug. 108, Sept. 104, Oct. 105, Nov. 120, Dec. 97
Employment Services.....	Jan. 168, Feb. 192, Mar. 134, Apr. 129, May 112, June 135, July 110, Aug. 108, Sept. 110, Oct. 109, Nov. 125, Dec. 100
Future Meetings.....	Jan. 153, Feb. 177, Mar. 120, Apr. 112, May 94, June 120, July 76, Aug. 82, Sept. 92, Oct. 80, Nov. 11, Dec. 88
Institute News.....	Jan. 107, Feb. 93, Mar. 97, Apr. 99, May 78, June 100, July 70, Aug. 76, Sept. 77, Dec. 67
Letters.....	Jan. 4, Mar. 8, Apr. 8, May 4, June 6, July 8, Sept. 6, Nov. 8, Dec. 6
News and Notes.....	Jan. 172, Feb. 196, Mar. 138, Apr. 132, May 114, June 138, July 114, Aug. 114, Sept. 114, Oct. 113, Nov. 130, Dec. 106
People.....	Jan. 112, Feb. 90, Mar. 101, Apr. 100, May 81, June 103, July 72, Aug. 80, Sept. 74, Oct. 76, Nov. 66, Dec. 70
Washington Newsletter.....	Jan. 33, Feb. 28, Mar. 33, Apr. 30, May 26, June 32, July 30, Aug. 26, Sept. 20, Oct. 22, Nov. 25, Dec. 21
What's New.....	Mar. 103, Apr. 102, May 84, June 106, July 85, Aug. 88, Sept. 78, Dec. 72
Canadian petrochemical complexes.....	Apr. 11
Candidates for AIChE offices.....	July 25
Careers, minority engineers sought for flyer.....	Jan. 109
Cat-cracking pilot unit.....	Feb. 51
Catalysis research systems.....	Nov. 52
Catalysis, Thesis Index.....	Jan. 91
CATALYST	
development.....	Apr. 93
low-pressure methanol.....	May 7
screening, mass balancing in.....	Aug. 41
Thesis Index.....	Jan. 91
Catalytic Research, Thesis Index.....	Jan. 91
Caustic liquors, wet air oxidation of.....	Mar. 68
Chem Show highlights.....	Nov. 69

CHEMICAL

engineering, software.....	June 30
engineers, construction industry opportunities.....	Jan. 22
Microscopy, Thesis Index.....	Jan. 91
Plant Equipment Exposition returning to Calif.....	Nov. 65
Processes, Thesis Index.....	Jan. 91
Reaction Engineering, Thesis Index.....	Jan. 91
Chemicals from biomass feedstocks.....	Nov. 59
Chemistry of energy in the '80s.....	Feb. 24
CHROMATOGRAPHY	
gas and liquid.....	Mar. 56
liquid, large-scale system.....	Oct. 53
Thesis Index.....	Jan. 91
Civil Rights Act of 1964.....	Aug. 13
Clean Water Act.....	Feb. 28
Coal-feed systems.....	May 31
Coal, Thesis Index.....	Jan. 91
Cogeneration.....	Jan. 9
Coil, radiant.....	Dec. 50
Coke Fluidized Bed Cracking process.....	Jan. 76
Colloid Science, Thesis Index.....	Jan. 92
Combustion, Thesis Index.....	Jan. 92
Complaints about sexual harassment, handling.....	Aug. 13
Compressors, reciprocating gas, materials for.....	Apr. 77
COMPUTER	
aids for process engineering.....	June 43
control of batch process.....	Oct. 47
control of batch receptors.....	Jan. 56
control of ethylene plant.....	Nov. 27
control of liquid-chromatography system.....	Oct. 53
control of olefins fractionation.....	Oct. 44
controlled pilot plants.....	Aug. 46
distributed system for pilot plants.....	Aug. 55
input technique.....	Oct. 27
Computer-Aided Design, Thesis Index.....	Jan. 92
Computer Program, Hextran.....	July 33
Computerized attainment analysis.....	June 61
Computers, personal, software for.....	June 30
Concentrators, falling film, PFR, and crystallizer.....	Sept. 27
Condensate recovery in refineries.....	May 67
Condensers, air-cooled.....	Aug. 66
Construction industry, employment in.....	Jan. 22
Contractor, horizontal alkylation.....	Aug. 59
Continuous vacuum plate dryer.....	Apr. 71
Contractor, marketing effectiveness of.....	Dec. 15
CONTROL	
computer, of batch processes.....	Oct. 47
computer, of olefins fractionation.....	Oct. 44
computer, of sulfite recovery boiler.....	Sept. 31
data acquisition system for pilot plants.....	Aug. 46
of fugitive emissions, economics of.....	Nov. 43
of multi-product batch reactors.....	Jan. 56
practices at formaldehyde plants.....	Mar. 35
reactor, model prediction for.....	July 77
systems, distributed digital.....	Feb. 67
CONTROLLERS	
adaptive.....	June 69
digital, single-loop.....	Feb. 67
Controls, Thesis Index.....	Jan. 92
Converter, ammonia.....	May 52
COOLING TOWERS	
conversion strategies for.....	Dec. 33
misconceptions about.....	Dec. 23
Cooling water systems management.....	May 67
Coproduct utilization.....	Dec. 11
Corporate discipline.....	Sept. 15
Corporate planning assessed.....	Jan. 108
CORROSION	
control via computer.....	Sept. 31
in PWR steam generators.....	July 39
resistance of thermoplastics.....	Jan. 62
Cost optimization using a dynamic process model.....	Jan. 43
COSTS	
amine sweetening units.....	Mar. 63
ethylene production.....	Jan. 68
HF vs. sulfuric acid alkylation.....	Aug. 59
modular plants.....	Oct. 58, 63
solar receiver steam systems.....	Jan. 48
Cracker, NGL, feedstock-flexible.....	Nov. 34
Cracker, thermal regenerative.....	Mar. 82
Crude tower, simulation of.....	Jan. 54
Crude units, exchanger networks for.....	July 33

Cryogenics, Thesis Index	Jan. 92
Crystallization, Thesis Index	Jan. 92
Curriculum, ethics in	May 15
Cylinders, compressor	Apr. 77

D

DIERS	June 9
DIMP	June 9
DIPPR	June 9
DRT spiral dryer	Apr. 43
Data acquisition and control system for pilot plants	Aug. 46
"Data Prediction Manual"	June 13
Desalters, crude, modular	Oct. 63
DESIGN	
adaptive, experimental analysis for barricade	June 69
capacities of major incinerators	Sept. 50
distillation columns	Oct. 27
of heat exchangers	July 47
hydrogen plants	Feb. 37
modular, for plants	Oct. 58
rebollers, horizontal	Mar. 86
safety in	Nov. 11
Thesis Index	Jan. 92
Institute, AIChE	June 9
DIAMOND JUBILEE	
eminent engineers chosen for history contest deadline extended	May 78
medallions available	June 100
meeting preview	Jan. 109
slide show in production	Aug. 72
Smithsonian and Kennedy Center on program	July 70
DIAMOND JUBILEE (Special Section)	Apr. 99
AIChE Journal	Oct. DJ 54
AIChE statistical summary	Oct. DJ 67
advertisers, CEP, 1947	Oct. DJ 47
advertisers, "Chemical Engineering Catalog"	Oct. DJ 47
"Chemical Engineering Modular Instruction Series"	Oct. DJ 56
Chemical Engineering Progress	Oct. DJ 46, 52
"Chemical Engineering Thesaurus"	Oct. DJ 57
Chemical Plant Equipment Exposition	Oct. DJ 58
Committee of Six	Oct. DJ 34
Continuing Education Dept.	Oct. DJ 56
curriculum, Columbia Univ., 1925	Oct. DJ 48
Education at Columbia Univ.	Oct. DJ 49
Employment Services Dept.	Oct. DJ 57
Engineers' Club of Philadelphia, founding site	Oct. DJ 36
Environmental Progress	Oct. DJ 55
Golden Jubilee	Oct. DJ 50
International Chemical Engineering Monograph and Symposium Series	Oct. DJ 54
officers, first	Oct. DJ 36
Past Presidents	Oct. DJ 60
Plant/Operations Progress	Oct. DJ 55
Pensions for Professionals	Oct. DJ 57
Petrochemical and Refining Exposition	Oct. DJ 58
photo album	Oct. DJ 62
Polytechnic Institute of Brooklyn	Oct. DJ 49
Program, Four Annual Meetings	Oct. DJ 39
publications	Oct. DJ 59
Transactions, table of contents, 1908	Oct. DJ 40
Secretaries	Oct. DJ 37
Treasurer's Report, Dec. 30, 1908	Oct. DJ 38
United Engineering Center construction	Oct. DJ 44
Diffusion, Thesis Index	Jan. 92
Direct dry coal-feed system	May 31
Direct mail advertising, effectiveness of	June 22
Directory advertising, effectiveness of	June 20
Discipline, corporate	Sept. 15
DISCRIMINATION	
age	Oct. 17
limiting	Sept. 11
Dispersion, Thesis Index	Jan. 92
Dissolution, Thesis Index	Jan. 92
DISTILLATION	
problems, graphic input for	Oct. 27
Thesis Index	Jan. 92
towers, simulation of	June 54
train, computer control of	Nov. 27
Distributed computer system for pilot plants	Aug. 55
Distributed digital control systems	Feb. 67
Division Officers of AIChE	Mar. 98
Drift loss in cooling towers	Dec. 23
Dry flue gas desulfurization	Mar. 74
DRYING	
continuous vacuum plate dryer	Apr. 71
DRT spiral dryer	Apr. 43
dry-scrubbing systems	Apr. 51
fluidized-bed spray granulation	Apr. 37
humidity control of automatic dryers	Apr. 66
molecular sieve dehydration cycle	Apr. 60
Thesis Index	Jan. 92
Dual microreactor catalyst screening system	Nov. 52
Dues increase voted	Sept. 9

E

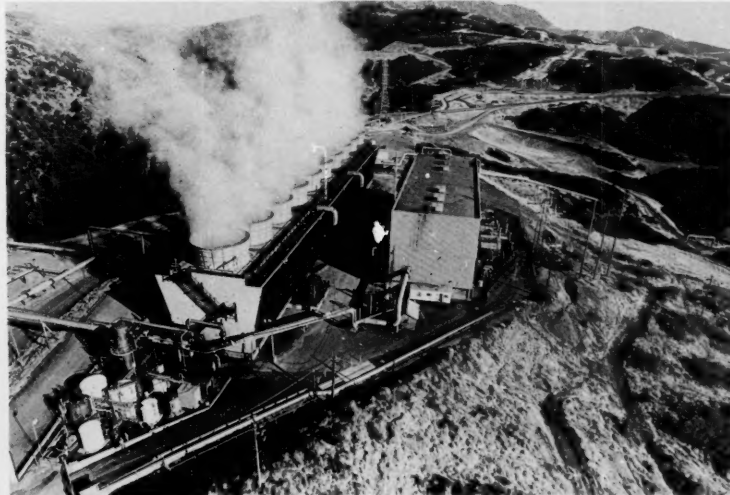
EPA regulatory reform	Jan. 27
EPIC pilot plant control system	Aug. 55
ECONOMICS	
aviation fuel from LPG	Feb. 55
of controlling fugitive emissions	Nov. 43
flue gas desulfurization system	Mar. 74
EDUCATION	
ethics simulation in the classroom	July 17
ethics, teaching of	Apr. 20, May 15
faculty salary survey	July 21
freshmen enrollment, 1982	May 21
guidance program for pre-college students	May 78

pre-college, needed in science and math	Nov. 25
safety issues not considered	Nov. 11
technology, deficiencies of	Aug. 26
Effluent, refinery, reuse of	May 67
Electrochemical, Thesis Index	Jan. 92
Electrochemistry, Thesis Index	Jan. 92
Emergency Relief Systems, Design Institute for EMISSIONS	June 9
fugitive, economics of control	Nov. 43
volatile, prediction of	Nov. 40
EMPLOYEE	
relations with management	Oct. 17
performance appraisal	Sept. 15
EMPLOYMENT	
Berkeley grads head for "Silicon Valley"	Feb. 93
Clearinghouse to continue at Houston Meeting	Feb. 93
in construction industry	Jan. 22
job content ability test	Sept. 15
performance appraisal	Sept. 15
unexceptional performer	Nov. 19
Emulsion Stability, Thesis Index	Jan. 93
ENERGY	
chemistry of, in the '80s	Feb. 24
conservation of alcohol production	Jan. 35
prices	Apr. 11
savings in evaporators	Sept. 36
solar receiver steam systems	Jan. 48
synfuels report released	May 26
U.S. Dept. of chemical engineering programs	May 24
ENGINEERING	
contractor, marketing of	Dec. 15
ethics, teaching of	Apr. 20, May 15
in federal budget	May 24
freshmen enrollment, 1982	May 21
role in economic recovery	May 7
technology transfer	Feb. 15
Engineering Data, New	Jan. 115
Engineers, eminent, chosen for Diamond Jubilee	May 78
Enrollment, freshmen, 1982	May 21
Environment protection favored by public	Feb. 28
ENVIRONMENTAL	
Div. officers	June 101
Engineering, Thesis Index	Jan. 93
Protection Agency, chemical engineering programs in	May 25
scores	Sept. 11
Equal Employment Opportunity Commission	Aug. 13
Guidelines	Aug. 13
EQUIPMENT	
absorbers	Mar. 63
agitators	Feb. 73
air-cooled exchangers	July 56
ammonia converters	May 52
boilers, recovery	Sept. 27
boilers, sulfite recovery	Sept. 31
concentrators	Sept. 27
condensers, air-cooled	July 54
condensers, air-cooled	Aug. 66
continuous vacuum plate dryer	Apr. 71
crackers, NGL	Nov. 34
DRT spiral dryer	Nov. 43
distillation	Jan. 35
distillation/evaporation system	Jan. 35
dryers, automatic humidity	Apr. 66
evaporation	Jan. 35
evaporation system, free-falling	Sept. 41
evaporators	July 58, Sept. 36
evaporators, thin-film	Jan. 35

exposure reducing, for oxides	Mar. 39
failures in ammonia plants	Mar. 11
fans	Dec. 28
furnace-type heaters	Aug. 66
gasifier, coal	May 45
heat exchangers	July 47
horizontal alkylation contactor	Aug. 59
multipass straight tube exchangers	July 51
PWR steam generators	July 39
personal, protective	Mar. 35
problems in pilot plants	Aug. 51
pump, screw-type, for coal feeding	May 42
pumps, heat	Feb. 73
radiant pyrolysis coils	Dec. 50
reactor, back-mixed	Feb. 51
reactor, methanol	July 64
rebollers, horizontal	Mar. 86
reciprocating process gas compressors	Apr. 77
reversejet scrubber	Feb. 60
steam jet ejectors	Dec. 56
tanks	Feb. 73
thermal regenerative cracker	Mar. 82
vacuum pumps	Dec. 56
Ethane feedstock prices	Sept. 56
ETHICS	
and design engineering	Nov. 11
engineering, teaching of	Apr. 20
simulation in the classroom	July 17
teaching of	May 15
ETHYLENE	
from crude oil in one step	Feb. 78
propylene price ratio	Apr. 11
refrigeration	Nov. 34
European fertilizer industry, future of	July 11
Evaporation in cooling towers	Dec. 23
Evaporation system, free-falling	Sept. 41
EVAPORATORS	
thin-film for radwaste	May 52
wiped film, as pilot plants	Aug. 35
Exchanger networks for crude units	July 33
Expanded-bed catalyst research system	Nov. 52
Experimental analysis for adaptive designs	June 69
Export controls on technology	July 30
Extraction, Thesis Index	Jan. 93
Extrusion/injection coal-feed system	May 31

F

Faculty salary survey	July 21
Fans, energy-saving	Dec. 28
Federal budget, 1984, chemical engineering in	May 24
Feed systems, coal	May 31
Feedstocks, NGL cracker	Nov. 34
Feedstocks, biomass, chemicals from	Nov. 59
Feedstocks, vamping old-fin plants for	Dec. 39
Fellows of AIChE	Jan. 114, Feb. 92, Mar. 102, Apr. 101, May 82, June 104, July 74, Aug. 81, Sept. 76, Oct. 78, Dec. 71
Fermentation derivatives	Nov. 59
Fertilizer industry, European, future of	July 11
Fiber savings by pressure-fed static screens	Sept. 23
Filter, vacuum HEPA	Dec. 56
Filtration, Thesis Index	Jan. 93
Finances, AIChE	Sept. 9
Fine-coal agglomeration	May 45



Geothermal energy research and development at the Electric Power Research Institute includes testing a process to remove hydrogen sulfide from steam at Pacific Gas and Electric's Geysers complex, site of the world's largest geothermal unit. Tests at the facility, located 90 mi. north of San Francisco, showed that, on average, about 94% of the H_2S can be removed.

Fires in ammonia plants	Mar. 11
Fission product source terms	Aug. 21
Flowbaths, computerized, optimization of	June 65
FLOWTRAN simulation system	June 49
Fluid catalytic cracking pilot plant	Feb. 51
Fluid mechanics, Thesis Index	Jan. 93
Fluidization, Thesis Index	Jan. 93
Fluidized-bed spray granulation	Apr. 37
Fluidized Beds, Thesis Index	Jan. 93
Fluorocarbon scare	Sept. 11
Fluorometry	Mar. 56
Forcants on energy in '70s	Feb. 24
Formaldehyde plants, control practices	Mar. 55
Four-pack catalyst research system	Nov. 52
Four-reactor adiabatic reforming catalyst research system	Nov. 52
Freeze resistance of thermoplastics	Jan. 62
Freshmen enrollment, 1982	May 21
Fuel, aviation, from LPG	Feb. 24
Future of European fertilizer industry	July 11
Furnace, radiant pyrolysis coils for	Dec. 50
Furnace-type heaters	Aug. 66

G

GATT antidumping code	July 11
GAS	
absorption/vacuum distillation tests for packings	Sept. 48
Adsorption, Thesis Index	Jan. 93
plant, simulation of	June 54
Gasification in combined gasification cycles	Jan. 9
Gasification process, fixed-bed coal	May 45
Gasoline demand for next decade	Feb. 24
Glass as construction material	Feb. 82
Government Programs Steering Committee	Oct. 22
Graduate school enrollments, 1982	May 21
Graphic input for distillation problems	Oct. 27
Grid-Pack packing	Nov. 49
Guidance program for pre-college students	May 78

H

HF alkylation process	Aug. 59
Hardware, computer, advances	June 43
Harrasment, sexual	Aug. 13
Hazards, plant	Feb. 73
HEALTH HAZARDS	
alkylene oxides	Mar. 39
formaldehyde	Mar. 35
Heat pumps	May 7
Heat recovery, incinerator	Mar. 44
Heat recovery system, Rankine Cycle	Feb. 37
HEAT TRANSFER	
air-cooled exchanger problems	July 56
condenser, improperly vented	July 54
evaporators for radioactive wastes	July 58
exchanger design	July 47
exchanger networks for crude units	July 33
interpass temperature effects	July 51
methanol reactor, scaledown of	July 64
PWR steam generators	July 39
Thesis Index	Jan. 93
Heaters, cracking, computer control of	Nov. 27
Heavy oil conversion, technical challenges to	Apr. 93
Heterogeneous catalysis research system	Nov. 52
Heterogeneous Catalysis, Thesis Index	Jan. 94
Hextran computer program	July 35
Homogeneous catalysis research system	Nov. 52
Horizontal reboilers, thermal design of	Mar. 86
Humidity control of dryers, automatic	Apr. 66
Hydrocarbon, liquid, feedstock prices	Sept. 56
Hydrogen plant design	Feb. 37
Hydrocarbon reforming, steam	Feb. 37
Hydroconversion of vacuum gas oil	Dec. 33

IJKL

Incinerator manufacturing industry, survey of	Mar. 44
India engineers organize	Feb. 94
Ionic Transport, Thesis Index	Jan. 94
Interfacial Transport, Thesis Index	Jan. 94
Jet fuel from LPG	Feb. 55
Job content ability test	Oct. 11
Katz wine National Medal of Science	July 75
Kinetic model set for Denver Meeting	Feb. 94
Kinetics, Thesis Index	Jan. 94
LPG, jet fuel from	Feb. 55
Leak detection and repair model	Nov. 40
Legal aspects of sexual harassment	Aug. 13
Liquid chromatography system, large-scale	Oct. 53
LIQUOR	
scaling and fouling of	Sept. 36
scaling and viscosity of	Sept. 27
Lock hoppers for coal-feed systems	May 37
Long Range Planning Committee Report	Dec. 17

M

Magazine advertising, effectiveness of	Jan. 19
Magnetic Memory, Thesis Index	Jan. 94
Mass balancing in catalyst screening	Aug. 41
Mass flowmeter approach to mass balances	Aug. 41
Mass Transport, Thesis Index	Jan. 94
Mass Transport, Thesis Index	Jan. 94
Material of Construction	Aug. 32
Materials for reciprocating gas compressor	Apr. 77
Materials, Thesis Index	Jan. 94
Mathematical Modeling, Thesis Index	Jan. 95
Maximum Credible Accident	Aug. 21

MANAGEMENT	
discrimination problems	Aug. 13, Oct. 11
and employee relations	Oct. 17
liability for sexual harassment	Aug. 13
Mechanical vapor recompression	Jan. 40
METHANOL	
AICHE Diamond Jubilee, Washington, D.C.	Sept. 64
AICHE Denver Summer National, preview	June 91, July 68
AICHE Houston 'National, preview	Jan. 98, Feb. 87
AICHE Houston Spring National and Petro Expo, photos	June 27
AICHE Los Angeles Annual, photos	Jan. 27
Engineering and Construction Contracting Conference, photos	Nov. 21
Engineering and Construction Contracting Conference, preview	July 68
International Solvent Extraction Conference, photos	Nov. 21
OTC, Houston, preview	Mar. 97
PACHE '83, preview	Jan. 107
Solvent Extraction Symposium	June 100
Summer National, Denver, photos	Nov. 21
Membrane Processes, Thesis Index	Jan. 95
Metallurgy, Thesis Index	Jan. 95
Methane plant, modular	Oct. 63
METHANOL	
catalyst, low-pressure	May 7
handling	Mar. 35
for transportation	Feb. 24
Methionine drying	Apr. 43
Middle East petrochemical complexes	Apr. 11
Mining techniques	Feb. 45
Minority engineers sought for career flyer	Jan. 109
Mixing, Thesis Index	Jan. 95
Model prediction for reactor control	June 77
Modelling, Thesis Index	Jan. 95
MODULAR PLANTS	
design	Oct. 58
economic considerations	Oct. 63
Molecular sieve dehydration cycle	Apr. 60
"More water" fallacy in cooling towers	Dec. 23
Multiphase Processing, Design Institute for	June 9

N

NGL cracker, feedstock-flexible	Nov. 34
NO Reduction, Thesis Index	Jan. 95
NAPHTHA	
cracking	Feb. 78
feedstocks, selecting	Sept. 56
National Bureau of Standards, chemical engineering program in	May 25
National Science Foundation, chemical engineering programs in	May 25
Natural gas prices	Sept. 56
Nitrates scare	Sept. 11
Nitrogen production, Europe and U.S.	July 11
NUCLEAR ENERGY	
fission product source terms	Aug. 21
waste repositories, siting of	Apr. 30
Nuclear Engineering, Thesis Index	Jan. 95
NUCLEAR MAGNETIC RESONANCE	
analysis	May 4
Thesis Index	Jan. 95
NUCLEAR PLANTS	
evaporators for radwaste	July 58
PWR steam generators in	July 39
Nuclear program supported by AAES	May 100

O

"Oklahoma and Chemistry" published	Feb. 95
OIL	
crude to ethylene in one step	Feb. 78
Recovery, Thesis Index	Jan. 95
shale retorting	Feb. 45
Olefin feedstock and product liability	Sept. 56
Olefin plants, retrofitting	Dec. 39, Dec. 45
OLEFINS	
fractionation control via computer	Oct. 44
from heavy oils	Jan. 76
thermal regenerative cracker for	Mar. 82
Operations procedures for pilot plants	Aug. 26
Optical Fiber, Thesis Index	Jan. 95
OPTIMIZATION	
of entire plants	June 39
of flowsheets	June 65
simulation of a specialties plant	June 84
Oxides, effects of exposure	Mar. 39

P

pH change, indication of amine presence	Mar. 56
PVT tanks approach to mass balances	Aug. 41
Packing cases, compressors	Apr. 77
PACKINGS	
gas absorption/vacuum distillation tests for	Sept. 48
high efficiency, performance of	Nov. 49
for product separation	Sept. 46
wetting tests for	Sept. 46
Parex process	May 7
Partial cracking combustion	Feb. 60
Particulate collection model	Feb. 60
Performance appraisal procedure	Sept. 15
Permeability, Thesis Index	Jan. 95
PERSONNEL MANAGEMENT	
discrimination, avoiding	Oct. 11
discrimination, charges, limiting	Sept. 15
sexual harassment	Aug. 13
unexceptional performer	Nov. 19
Petro Expo '83	Feb. 99
Petrochemical complexes in Canada and Middle East	Apr. 11

Petroleum Reservoir Engineering, Thesis Index	Jan. 95
Physical Properties Data, Design Institute for	June 9
Physical Properties Reduction, Thesis Index	Jan. 95
PILOT PLANTS	
bench-top data acquisition and control system	Aug. 46
distributed computer systems for pilot plants	Aug. 55
mass balancing in catalyst screening	Aug. 41
problems with equipment	Aug. 51
standardized procedures	Aug. 26
wiped film evaporators as	Aug. 35
Pipeline feeding system for coal	May 37
PLANTS	
ammonia, causes of shutdowns in	Mar. 11
ammonia, shutdowns	May 28
cat-cracking unit	Feb. 51
ethylene, computerization of	Nov. 27
formaldehyde, control practices at	Mar. 35
gas, simulation of	June 54
hazards	Feb. 73
hydrogen	Feb. 37
modular design	Oct. 58, 63
modularization and investment	Oct. 63
olefin	Dec. 39, 45
olefins, production costs	Sept. 56
optimization of	June 39
petrochemical, Middle East and Canada	Apr. 11
specialties, simulation/optimization of	June 84
Pneumatic coal-feed system	May 31
Polar Fluids, Thesis Index	Jan. 95
POLLUTION CONTROL	
alkylene oxides exposure, controlling	Mar. 39
amine monitoring in refinery sewers	May 56
amine sweetening units	Mar. 63
control devices for incinerators	Mar. 44
dry flue gas desulfurization	Mar. 74
in formaldehyde plants	Mar. 35
incinerators	Mar. 44
Office of Toxic Substances fine tuning TSCA	Sept. 20
wet air oxidation of spent caustic liquors	Mar. 68
Polyethylene and polypropylene manufacturing processes	Apr. 84
Polymer Blends, Thesis Index	Jan. 95
Polymers, Thesis Index	Jan. 95
Power recovery from waste heat	Aug. 66
Predicting volatile emissions	June 49
Pressure swing adsorption	Feb. 37
Preventive maintenance	Feb. 15
Problems faced by pilot plants	Aug. 51
Process computer program	July 33
Process Flowsheeting, Thesis Index	Jan. 95
PROCESSES	
ACR for ethylene	Jan. 68
AMV	May 62
Aviation fuel from LPG	Feb. 55
batches, computer control of	Oct. 47
Coke Fluidized Bed Cracking	Jan. 76
computer control	Oct. 44
dynamic model for cost optimization	Jan. 43
engineering, computer aids for	June 49
fixed bed, coal gasification	May 45
flowsheets, computerized optimization of	June 65
fluid catalytic cracking	Feb. 51
for manufacturing polyethylene and polypropylene	Apr. 84
naphtha cracking	Feb. 78
Parex	May 7
partial catalytic cracking	Feb. 78
Spray Fluidizer	Apr. 37
Visbreaking	Jan. 85
Product development	Feb. 15
Professionalism, teaching engineering ethics	Apr. 20
Professors, salaries of	July 21
Proposed preparation by engineering	Dec. 15
guidelines for	Dec. 15
Propylene feedstock, supply and demand	Apr. 11
Program, computer graphic input	Oct. 27
Protectionism, European	July 11
Protectionist legislation	June 32
PUBLIC	
favors clean environment	Feb. 28
relations Award to Southeast Texas Section	July 70
relations/publicity, effectiveness of	June 23
PULP/PAPER	
evaporation system, free-falling	Sept. 41
evaporator applications and trends	Sept. 36
fiber savings by pressure-fed static screens	Sept. 23
recovery boiler efficiency, improving	Sept. 27
sulfite recovery boiler, computer control of	Sept. 31
Thesis Index	Jan. 96
PUMPS	
heat	May 7
loss prevention review	Feb. 73
screw-type, for coal feeding	May 42
vacuum	Aug. 26
Pyrolysis coils, radiant	Dec. 50
Pyrolysis, Thesis Index	Jan. 96
RDS catalyst	Apr. 93
Radiant coil technology	Dec. 50
RADIOACTIVE WASTES	
disposal repositories	Apr. 30
evaporators for	July 58
Radwaste volume reduction	May 52
Rankine Cycle heat recovery system	Feb. 37
Rankine power system	Aug. 66
Rasmussen Report	Aug. 21
Reactions, Thesis Index	Jan. 96
Reactor, back-mixed	Feb. 51
Reactor control, model prediction for	July 77
REACTORS	
catalytic	Nov. 52
methanol scaledown of	July 64
polymerization	Apr. 84
safety programs	Aug. 21
Reboilers, horizontal, thermal design of	Mar. 86
Recompression, mechanical vapor	Jan. 35
REFINERIES	
crude units, exchanger networks for	July 33
sewers, monitoring for amine	Mar. 56
units, modular	Oct. 63
wastewater reuse and recycle	May 67

Refrigeration, ethylene, and propylene	Nov. 34
Research systems, catalyst	Nov. 52
Research and development, federal funds for fiscal 1984	Mar. 33
Residue conversion	Apr. 93
Residue destruction via Visbreaking process	Jan. 85
Resource recovery via coproduct utilization	Dec. 11
Retrofitting of olefin plants	Dec. 45, 49
Retorting, oil shale	Feb. 45
Reversejet scrubber from particulates control	Feb. 60
Rheology, Thesis Index	Jan. 96
Rotary atomization vs. two-fluid nozzle for dry scrubbing systems	Apr. 51
Rotary lock chamber for coal-feed systems	May 37

S

SAGE (System Availability Generalized Evaluator)	June 61
SO ₂ absorption, chemistry of	Mar. 74
SAFETY	
alkylene oxides, controlling exposure to	Mar. 39
in ammonia plants	Mar. 11
in design	Nov. 11
formaldehyde industry	Mar. 35
hazards in plants	Feb. 73
nuclear reactor	Aug. 21
Salary survey, faculty	July 21
Sales tools, comparative evaluation of	June 17
Salesman, effectiveness of	June 18
Science education, deficiencies of	Aug. 26
Science, precollege training needed in	Nov. 25
Scrubber, Reversejet, for particulate control	Feb. 60
Separation, Thesis Index	Jan. 96
Sewers, refinery, monitoring for amine	Mar. 56
Sexual harassment	Aug. 13
Shutdowns, ammonia plant	Mar. 11, May 28
SIMULATION	
bench-marking problems for	June 54
FLOWTRAN system	June 49
optimization of a specialties plant process, benefits of	June 43
Thesis Index	Jan. 96
whistleblowing	July 17
Single-loop controllers	Feb. 67
Slagging gasifier, cost	May 45
Slurry coal-feed system	May 31
Software for personal computers	June 30
Solar photovoltaics	Feb. 24
Solar receiver steam systems	Jan. 48
Solvent recovery process, optimizing	Jan. 43
Spray Fluidizer process	Apr. 37
Static screens, pressure-fed	Sept. 23
Steam hydrocarbon reforming	Feb. 37
Steam jet ejectors	Dec. 56
Steam, solar generated	Jan. 48
Storage subsystems (thermal)	Jan. 48
Students, engineering, profile of	May 15
Sulfuric acid alkylation, cost benefits of	Aug. 59
Surface Chemistry, Thesis Index	Jan. 96
Surface Interaction, Thesis Index	Jan. 96
Synfuels report released	May 26

T

Tanks, loss prevention review	Feb. 73
Teaching engineering ethics	Apr. 20
TECHNOLOGY	
government support of	June 32
exports, controls on	July 30
oil shale retorting	Feb. 45
public distrustful of, exec. says	Feb. 93
transfer from development to production	Feb. 15
U.S. leads foreign competition	Mar. 8
Temperature control, pilot plant	Aug. 46
Termination procedure	Sept. 15
Terms, fission product source	Aug. 21
Test, job content ability	Oct. 11
Thermal Conductivity, Thesis Index	Jan. 96
Thermal design of horizontal reboilers	Mar. 86
Thermodynamics, Thesis Index	Jan. 96
Thermoplastic values	Jan. 62
THESES INDEX	
Absorption	Jan. 90
Adsorption	Jan. 90
Aerosols	Jan. 90
Air Pollution Control	Jan. 90
Applied Math	Jan. 90
Biochemical Engineering	Jan. 90
Bioengineering	Jan. 91
Biomaterials	Jan. 91
Biomedical Engineering	Jan. 91
Blood Separations	Jan. 91
Catalysis	Jan. 91
Catalytic Research	Jan. 91
Chemical Microscopy	Jan. 91
Chemical Processes	Jan. 91
Chemical Reaction Engineering	Jan. 91
Chromatography	Jan. 91
Coal	Jan. 92
Colloid Science	Jan. 92
Combustion	Jan. 92
Computer-Aided Design	Jan. 92
Controls	Jan. 92
Cryogenics	Jan. 92
Crystallization	Jan. 92
Design	Jan. 92
Diffusion	Jan. 92
Dispersion	Jan. 92
Dissolution	Jan. 92
Distillation	Jan. 92
Drying	Jan. 92
Electrochemical Engineering	Jan. 92
Electrochemistry	Jan. 92
Emulsion Stability	Jan. 93
Environmental Engineering	Jan. 93

Extraction	Jan. 93
Filtration	Jan. 93
Fluid Mechanics	Jan. 93
Fluidization	Jan. 93
Fluidized Beds	Jan. 93
Gas Adsorption	Jan. 93
Heat Transfer	Jan. 93
Heterogeneous Catalysis	Jan. 94
Interfacial Phenomena	Jan. 94
Interfacial Transport	Jan. 94
Ionic Transport	Jan. 94
Kinetics	Jan. 94
Magnetic Memory	Jan. 94
Mass Transfer	Jan. 94
Mass Transport	Jan. 94
Materials	Jan. 94
Mathematical Modeling	Jan. 95
Membrane Processes	Jan. 95
Metallurgy	Jan. 95
Mixing	Jan. 95
Modelling	Jan. 95
NO Reduction	Jan. 95
Nuclear Engineering	Jan. 95
Nuclear Magnetic Resonance	Jan. 95
Oil Recovery	Jan. 95
Optical Fibers	Jan. 95
Permeability	Jan. 95
Petroleum Reservoir Engineering	Jan. 95
Physical Properties Reduction	Jan. 95
Polar Fluids	Jan. 95
Polymer Blends	Jan. 95
Polymers	Jan. 95
Process Flowsheeting	Jan. 95
Pulp/Paper	Jan. 96
Pyrolysis	Jan. 96
Reactions	Jan. 96
Rheology	Jan. 96
Separation	Jan. 96
Simulation	Jan. 96
Surface Chemistry	Jan. 96
Surface Interaction	Jan. 96
Thermal Conductivity	Jan. 96
Thermodynamics	Jan. 96
Thermodynamics	Jan. 96
Transport	Jan. 96
Tribology	Jan. 96

Viscosity	Jan. 96
Wastewater Treatment	Jan. 96
Wood Conversion	Jan. 96
Towers, distillation, simulation of	June 54
Toxic Substances Control Act, fine tuning of	Sept. 20
Trade, European protectionism	July 11
Trade shows, effectiveness of	June 24
Trade, U.S. Dept. of, proposed	June 32
Training program, employment	Oct. 11
Transport, Thesis Index	Jan. 96
Tribology, Thesis Index	Jan. 96
Tube denting in PWR steam generators	July 39
Turnarounds, ammonia plant	Mar. 11
Two-fluid nozzle vs. rotary atomization for dry-scrubbing systems	Apr. 51

UVW

U.S. leads foreign competition in technology	Mar. 8
Ultraviolet photometry	Mar. 56
Undergraduate enrollments, 1982	May 21
Vacuum distillation/gas absorption tests for packings	Sept. 48
Vacuum gas oil feedstocks, revamping for	Dec. 39
Vacuum systems	Dec. 56
Valves, compressor	Apr. 77
Valves, thermoplastic	Jan. 62
Vendors of incinerators for residue destruction	Mar. 48
Visbreaking process for residue destruction	Jan. 96
Viscosity, Thesis Index	Jan. 96
Volatile emissions, predicting	Nov. 40
WASH-70 study	Aug. 21
Waste heat, power recovery from	Aug. 66
Wastewater reuse and recycle	May 67
Wastewater Treatment, Thesis Index	Jan. 96
Wet air oxidation of spent caustic liquors	Mar. 68
Wetting tests for packing	Sept. 46
Whistleblowing simulation	July 17
Wiped film evaporators as pilot plants	Aug. 35
Wood, alkaline pulping of	Sept. 27
Wood Conversion, Thesis Index	Jan. 96
Worker exposure to formaldehyde	Mar. 35

Author Index

A	
Aiken, F.A.	Apr. 51
Aksela, R.	Sept. 31
Allan, D.E.	Jan. 85
Alper, W.S.	Oct. 27
Amano, T.	Dec. 50
Angell, C.W.	May 52
Anthony, D.	July 58
Ardell, G.A.	June 77
Arlidge, D.B.	Aug. 35
Armstrong, W.S.	Jan. 56
Asgari, M.	Nov. 27
Ausikaitis, J.P.	Apr. 60
B	
Baird, J.L.	May 52
Baldwin, R.L.	Jan. 69
Barde, D.K.	Sept. 27
Barnes, C.M.	Nov. 34
Barret, G.J.	Mar. 35
Barrs, T.W.	Mar. 56
Barton, W.J.	Jan. 85
Beck, S.R.	Nov. 59
Bell, K.J.	July 54
Bernstein, A.J.	Oct. 17
Berty, J.M.	July 64
Black, G.	June 17
Brenner, H.R.	Dec. 11
Bristol, E.H.	June 69
Bucsko, R.T.	Feb. 82
Bullin, J.A.	Mar. 63
Burger, R.	Dec. 33
C	
Caldwell, W.B.	Oct. 53

Campbell, J.C.	Dec. 23
Carmody, D.B.	Dec. 15
Chen, G.K.	Sept. 46, Nov. 49
Challand, T.B.	June 65
Chapin, L.E.	Aug. 59
Christolini, B.A.	Feb. 45
Chriswell, L.I.	Apr. 84
Cizmar, L.E.	July 47
Clements, L.D.	Nov. 59
Coe, B.F.	Jan. 56
D	
Damerell, G.L.	Feb. 15
DeAngelo, D.J.	Mar. 68
DeGarmo, J.L.	Feb. 60
DeLaquill, III, P.	Jan. 48
Diehl, D.S.	Sept. 23
Donaldson, T.L.	May 21
Donnelly, S.T.	Mar. 63
Duir, J.H.	Feb. 45
Dunn, D.W.	Mar. 35
E	
Ellingsen, W.R.	Jan. 43
Ellis, A.F.	Mar. 82
Eng, C.C.	Jan. 85
Eng, C.N.	Nov. 34
Faas, S.E.	Jan. 48
Fair, J.R.	Mar. 86
Felder, R.M.	June 84
Ferguson, J.E.	Aug. 66
Fernandez-Baujin, J.M.	Dec. 39
Fish, J.D.	Jan. 48
Flores, A.	Nov. 11
Flores, G.H.	Mar. 39

Forman, J.C. Sept. 9
 Forthuber, D. Apr. 71
 Frankel, I. Mar. 44
 Friend, W.L. Jan. 22
 Fujita, N. Jan. 76
 Funk, E.D. May 37
 Furgason, R.R. July 21

G

Gall, R.L. May 31
 Garg, D.R. Apr. 60
 Gartside, R.J. Mar. 82
 Gibson, K.R. Apr. 93
 Glaser, L.B. Oct. 63
 Goetzmann, S. Dec. 45
 Goltermann, D.S. Nov. 52
 Graves, C.W. Feb. 15
 Green, D.C. Apr. 93
 Grisso, J.R. Jan. 9
 Griswold, C.F. Feb. 45
 Groeber, R.X. Aug. 13
 Groenvel, G.A. Feb. 15
 Grover, S.S. June 54
 Gumowski, B. June 77
 Gundzig, R.M. Aug. 29

H

Hafke, C.F. May 45
 Hagerty, D.J. July 17
 Hammer, G.A. July 33
 Handman, S.E. May 56
 Harris, G.E. Nov. 43
 Haskins, D.E. June 39
 Hauser, J.J. Sept. 15
 Hedley, W.H. Mar. 35
 Heintz, C. Nov. 59
 Herring, W.M. Aug. 46
 Hess, D. Apr. 43
 Hess, J.L. Nov. 40
 Hightower, J.R. May 24
 Hilbert, Jr., J.D. May 42
 Hoehing, W.W. Mar. 11
 Hollenack, W.R. Aug. 51
 Holmes, T.L. Feb. 60
 Honka, I. Sept. 31
 Hovmand, S. Apr. 37
 Humes, W.H. Feb. 51

IJK

Iglesrud, T. July 68
 Johnson, E.K. May 31
 Jones, J.R. Feb. 55
 Johnson, M.L. Mar. 35
 Kamas, J.W. Nov. 43
 Kamm, G.R. Jan. 69
 Kemp, H.S. June 9
 Kester, P.M. June 84
 Kidnay, A.J. June 91
 Kieschnick, W.F. Feb. 24
 Kittleman, T.A. Nov. 40
 Kirk, R.O. Feb. 78
 Kitterman, L. Sept. 46, Nov. 49
 Klaassen, W. July 11
 Kleinschrodt, III, F. July 33
 Kliewer, V.D. Oct. 58
 Klip, A. Mar. 86
 Klumpe, H.W. Jan. 9

Kramer, J. Oct. 63
 Kubo, H. Jan. 76
 Kumagai, Y. Jan. 76
 Kunes, J.G. Aug. 51
 Kuukkanen, K.K. Sept. 31

L

Langer, B.S. May 67
 Leach, G.L. Jan. 98
 Leatherman, H.R. Jan. 40
 LeBlanc, Jr., J.R. May 56
 Lewis, L. Oct. 11
 Liles, J.A. June 43
 Lindauer, G.C. July 17
 Livingstone, J.G. May 62
 Logsdon, J.D. Sept. 36

M

McConney, J.M. June 84
 McKetta, J.J. Sept. 11
 McKinnery, Jr., W.N. Mar. 35
 Malmivouri, P. Sept. 31
 Maples, R.E. Feb. 55
 Marshall, W.R. Dec. 20
 Martin, J.B. Nov. 19
 Martinez, C.H. Jan. 85
 Martino, E. Apr. 77
 Martinovic, A. Feb. 67
 Maruta, T. Dec. 50
 Maruyama, T. Jan. 76
 Matty, Jr., L. Aug. 41
 Maurin, P.G. Apr. 51
 Mehta, G.A. Oct. 47
 Meilun, E.C. Sept. 56
 Merz, G. Dec. 45
 Meyer, C.F. Feb. 60
 Meyer, D.W. Aug. 59
 Meyer, J.L. Oct. 53
 Minarik, Z. Nov. 27
 Molnar, T.E. Oct. 53
 Monat, J.P. Mar. 74
 Monroe, R.C. Dec. 28
 Mortensen, S. Apr. 37
 Muir, R.F. Aug. 59
 Mundis, J.A. July 39
 Mutsakis, M. Mar. 74

NOP

Noble, R. June 91
 Oldshue, J.A. Aug. 72, Sept. 64
 Osborne, R.L. Oct. 27
 Palluzi, R.P. Aug. 41
 Pase, G.K. July 51
 Pate, J.B. Mar. 35
 Patton, P.W. Dec. 56
 Paul, E.L. Oct. 53
 Patel, J.C. Sept. 27
 Peiser, A.M. June 54
 Peters, H.J. Apr. 51
 Petti, V.J. Apr. 51
 Pickover, B.H. Apr. 11
 Pinto, A. May 62
 Polasek, J.C. Mar. 63
 Proctor, S.I. June 49

R

Randhava, R. Nov. 52

Reinauer, T.V. Mar. 68
 Robinson, T. Jan. 62
 Roszkowski, T.R. Jan. 9
 Rossi, R.A. Apr. 43

S

Sanders, N. Mar. 44
 Sanders, R.E. Feb. 73
 Schad, M.K. May 45
 Seitz, D.R. Oct. 44
 Shieh, J.H. Nov. 49
 Shih, C.K. Oct. 53
 Shippe, K. July 56
 Shieh, J. Sept. 46
 Shoji, Y. Jan. 76
 Snavely, C.M. Oct. 53
 Snyder, N.W. Jan. 9
 Sood, M.K. June 54
 Standiford, F.C. Jan. 35
 Steinbaum, C.A. Apr. 11
 Steinmetz, J.I. Nov. 43
 Stine, L.O. May 7
 Streit, D.E. Sept. 41
 Sumner, C. Dec. 39
 Swearingen, J.S. Aug. 66

T

Taylor, J.H. Aug. 55
 Tayyabkhan, M.T. June 54
 Teichman, D.P. Apr. 93
 Tenini, J.W. Feb. 87
 Tielrooy, J. Feb. 37
 Tippets, K.G. June 61
 Treworgy, E.D. Nov. 52
 Tseng, Y.M. Aug. 55
 Tucker, W.H. Apr. 20
 Tunkel, S.J. Sept. 50

V

van Weenan, W.F. Feb. 37
 VanSwearingen, R.A. Aug. 55
 Vickers, A.G. May 7
 Vivian, J.E. May 52
 Vogel, G. Mar. 44
 Vogel, R.C. Aug. 21

W

Wang, C.C.K. Aug. 13
 Wang, R.K. Aug. 55
 Wall, F. Dec. 50
 Weber, G.M. June 54
 Weimer, L.D. Jan. 35
 Wetherold, R.G. Nov. 43
 Wilcox, J.R. May 15
 Wilhelmi, A.R. Mar. 68
 Willa, J.L. Dec. 23
 Williams, G.P. Mar. 11
 Wisler, R.A. Aug. 55

YZ

Yang, C.H. Nov. 27
 Yang, C.L. Jan. 48
 Yokell, S. July 51
 Yonezawa, M. Dec. 50
 Zagorzycki, P.E. Apr. 66
 Zelenka, J. Nov. 27
 Zdonik, S.B. Sept. 56

